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ABSTRACT

This publication is written as a reference guide for persons interested in energy conservations, alternative energy sources, and energy conscious lifestyles. It consists of both a directory to organizations that can provide energy information and a bibliography of useful consumer-oriented publications. The directory includes leading private and governmental organizations involved in energy issues and programs. Potential sources of funding for energy projects, energy information centers, regulatory bodies, research centers, environmental groups, and design associations are mentioned. They are each described in brief; addresses, phone numbers and contacts are listed. The materials included in the bibliography were chosen on the basis of content, clarity of presentation and accuracy. A brief description of each publication's contents follows the usual bibliographic information; title, author, publisher, place, year, and current price if available. The bibliography includes both books and periodicals. The directory consists of three sections: (1) Private organizations; (2) Government agencies; and (3) Utilities. (MR)

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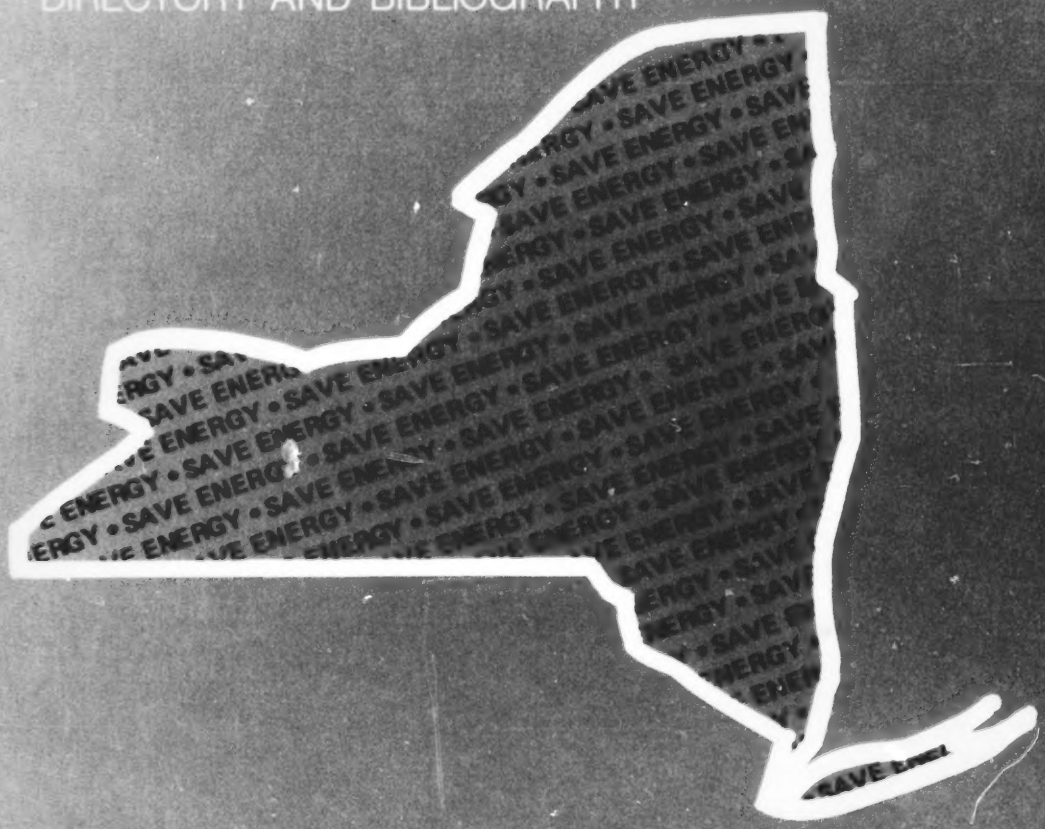
ENERGY

DIRECTORY AND BIBLIOGRAPHY



Consumer Action Now's Council
and
New York State Alliance to Save Energy, Inc.

SE 024 897

ABOUT THE AUTHORS

Consumer Action Now's Council is a national organization whose goals include, among others, heightened consumer awareness and encouragement of energy conservation (see page 4).

The New York State Alliance to Save Energy is a statewide organization principally concerned with "popularizing" the discussion of energy and conservation (see page 8).

Both CAN and NYSATSE are non-profit groups and, as such, are dependent upon the public for financial support. Contributions to both organizations are tax-deductible and may be sent to:

New York State Alliance to Save Energy, Inc.
36 West 44th Street, Room 709
New York, New York 10036

and

Consumer Action Now's Council
355 Lexington Avenue, 16th Fl.
New York, New York 10017

Richard M. Berman
Irmgard Hunt

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INTRODUCTION

This energy directory and bibliography is the joint product of Consumer Action Now's Council and the New York State Alliance to Save Energy Inc.. The booklet is intended as a handy reference guide for New Yorkers and other persons interested in energy conservation, alternative energy sources and energy conscious lifestyles.

The directory includes leading private and governmental organizations involved in energy issues and programs. Potential sources of funding for energy projects, energy information centers, regulatory bodies, research centers, environmental groups and design associations are mentioned. They are each described in brief; addresses, phone numbers and contacts are listed.

The bibliography synthesizes the ever increasing number of books, magazines and pamphlets written for energy aware consumers. The materials were chosen on the basis of content, clarity of presentation and accuracy. Consumers interested in conservation techniques and alternative energy technology should find these sources of information useful.

DIRECTORY

PRIVATE ORGANIZATIONS

AMERICAN INSTITUTE OF ARCHITECTS
1735 New York Ave., N.W., Washington, D.C. 20006
Contact: Public Relations Department (202) 785-7300

AIA is the leading architects' professional association. Its energy involvement includes design research and publication of materials on building standards and techniques, including those relating to insulation and other energy saving procedures.

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIRCONDITIONING ENGINEERS
345 East 47th Street, New York, New York 10017
Contact: Receptionist (212) 644-7954

ASHRAE disseminates information relating to heating, refrigerating, airconditioning and ventilation. ASHRAE has prepared a set of building heating and cooling standards for energy conservation in new buildings entitled *Energy Conservation in New Buildings Design: ASHRAE 90-75 Series.* Energy conservation standards for existing structures are being developed in ASHRAE's 100 Series.

AMERICANS FOR ENERGY INDEPENDENCE
1250 Connecticut Ave., N.W., Washington, D.C. 20036
Contact: Elihu Bergman (202) 466-2105

AFEI is a non-profit public interest coalition made up of business, labor, academic, consumer, conservation and community leaders who share the conviction that an ample and reliable supply of energy is essential for a healthy American society.

ASSOCIATION OF HOME APPLIANCE MANUFACTURERS
20 North Wacker Drive, Chicago, Illinois 60606
Contact: Publications Office (312) 984-5800

AHAM provides energy efficiency certifications for home appliances manufactured by AHAM member and nonmember companies. AHAM has published directories listing the relative operating costs and efficiencies – i.e. life cycle cost data – of air conditioners, refrigerators, freezers, humidifiers, de-humidifiers and other household appliances.

ASSOCIATION OF SCIENCE TECHNOLOGY CENTERS
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037
Contact: Mrs. Lee Kimche, Executive Director (202) 452-0655

ASTC is a membership organization of science museums. It seeks to improve museum operations and advance the role of science museums. ASTC also serves as a clearinghouse for information on museum resources and a coordinator of museum projects. Information about energy related museum displays can be obtained from ASTC's publication *Discover and Learn.*

BROOKHAVEN NATIONAL LABORATORY
Upton, New York 11937
Contact: W. E. Winsche (516) 345-2932

BNL is a Federally funded, multi-program center for research in the physical, biomedical and environmental sciences and energy technology. BNL has undertaken research in reactor safety, hydrogen energy systems, biomedical and environmental assessments of energy systems and the energy needs and supplies of the Northeast. A list of current publications is available from BNL.

BROOKINGS INSTITUTE, THE
1775 Massachusetts Avenue, N.W., Washington, D.C. 20036
Contact: James D. Farrell (202) 797-6000

BI is a nonprofit organization devoted to research, education, and publication in economics, government, foreign policy, social sciences and energy. Current energy titles include: *Higher Oil Prices and the World Economy: The Adjustment Problem; Pollution, Prices and Public Policy;* and *Cooperative Approaches to World Energy Problems.* BI's annual publication for 1977 *Setting National Priorities: The 1978 Budget* contains a chapter analyzing the Administration's National Energy Plan.

BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL
1313 East 60th Street, Chicago, Illinois 60637
Contact: Michael E. Werner (312) 947-2000

BOCA is the professional association for regulatory construction code officials and building industry personnel concerned with development, maintenance and enforcement of model codes. *BOCA Basic Energy Conservation Code/1977* is a handbook of energy conservation requirements and reference standards (derived from *BOCA Basic Building, Mechanical and Plumbing Codes* and based on ASHRAE standards) and is intended for use by state, county and local jurisdictions.

CENTER FOR ENERGY POLICY AND RESEARCH
New York Institute for Technology, Old Westbury, New York 11568
Contact: Edwin F. Shelley (516) 686-7578

The Center conducts information dissemination programs, research programs in system design and policy development and academic programs on energy problems and alternatives. The Center answers energy inquiries from the public via Energy Hotline: (516) 686-7744, Monday through Friday from 10 to 4.

CITIZENS COMMITTEE FOR NEW YORK CITY, INC.
630 Fifth Avenue, New York, New York 10020
Contact: Sandra Silverman (212) 975-1050

The Citizens Committee is a nonprofit organization founded in 1975 to support and encourage self-help programs throughout New York City's five boroughs and to help ease the burdens of cutbacks in City services due to the fiscal crisis. CC publishes numerous materials available free of charge, including brochures on forming block associations.

CITIZENS FOR CLEAN AIR, INC.
25 Broad Street, New York, New York 10004
Contact: Brian Ketcham (212) 943-2400

CCA is a public interest advocacy organization working to improve air quality and public transportation. CCA campaigns for the development of energy efficient urban areas, vehicles and modes of transit. CCA also conducts technical research, assists neighborhood organizations, monitors the tri-state planning processes and participates in legislative proceedings. Publications list available on request.

CITIZENS' ENERGY PROJECT
Center for Science in the Public Interest
1757 S Street, N.W., Washington, D.C. 20009
Contact: Ken Bossong (202) 332-4252

CEP is designed to encourage local approaches to the energy crisis. Emphasis is placed on indigenous resources and local ingenuity, e.g. solid waste conversion, wood power, conservation, etc. CEP has developed publications, conferences and a newsletter to assist community groups.

CITIZENS UNION OF THE CITY OF NEW YORK
15 Park Row, New York, New York 10038
Contact: Stephen Shestakofsky (212) 227-0342

CU was established in 1897 to promote effective government. CU conducts research on a wide range of City issues, publishes a *Voter's Directory* evaluating local candidates and maintains lobbying units in Albany and New York City. CU's Committee on City Planning and Budget is conducting an evaluation of New York City's Resource Recovery Task Force in developing a comprehensive solid waste management plan.

COMMITTEE FOR ECONOMIC DEVELOPMENT
477 Madison Avenue, New York, New York 10022
Contact: Claudia P. Feurey (212) 688-2063

CED is a nonprofit research and educational organization of 200 business leaders and educators which formulates recommendations in the areas of national and international economics, education, urban development and the management of government. CED has published *Key Elements in a National Energy Strategy; Nuclear Energy and National Security; International Economic Consequences of High Priced Energy;* and *Achieving Energy Independence.*

CONEG POLICY RESEARCH CENTER, INC.
135 West 50th Street, New York, New York 10020
Contact: Ms. Ellen Kornfeld (212) 245-2210

The Center was established by the Coalition of Northeast Governors to develop mechanisms to stimulate the economy of the Northeast. The Center's report *Energy Costs and Use and Patterns of Economic Activity in the Northeastern United States* examines the economic impacts of high energy costs on manufacturing and industrial operations. The Center is working on a proposal for a regional energy corporation to assist northeast businesses in the development of new energy sources and conservation methods.

CONSERVATION FOUNDATION, THE
1717 Massachusetts Avenue, N.W., Washington, D.C. 20036
Contact: Ms. Celine Seymour (202) 797-4318

CF was organized in 1948 to call attention to the environmental crisis and to promote understanding of the total environment and resource management. Through published books, reports, films and newsletters, CF provides information on off-shore drilling, coastal land management, environmental laws, and energy strategies in transportation and housing. CF has also developed energy conservation seminars and an *Energy Conservation Training Manual.*

CONSUMER ACTION NOW'S COUNCIL
355 Lexington Avenue, New York, New York 10017
Contact: Irmgard Hunt (212) 682-8915

CAN is a national nonprofit organization whose goals are to heighten consumer awareness of the social and environmental impacts of their buying habits, to provide consumers with specific alternatives for constructive lifestyle changes, to encourage conservation and use of clean, renewable energy sources. CAN has conducted energy seminars on solar systems, developed slide shows, short films, a public energy resource library and held energy workshops. CAN has published a booklet *Plugging into Solar Energy* and a bimonthly newsletter.

CONSUMERS UNION OF UNITED STATES, INC.
256 Washington Street, Mount Vernon, New York 10550
Contact: Rhoda Karpatkin (914) 664-6400

CU is a nonprofit organization which provides consumers with information and counsel on consumer goods and services and matters relating to the expenditure of family income. CU findings are made available through the monthly publication *Consumer Reports.* CU also participates in individual and group efforts to create and maintain decent living standards.

COOPERATIVE EXTENSION
East Roberts Hall
Cornell University, Ithaca, New York 14853
Contact: Sid Cleveland (607) 256-2092

Cooperative Extension offers consumer information and guidance on a wide range of energy-related subjects through dissemination of printed and visual materials and community group training sessions. Local Cooperative Extension energy coordinators are located in 56 county offices throughout the State and in New York City.

COUNCIL ON ECONOMIC PRIORITIES
84 Fifth Avenue, New York, New York 10011
Contact: Alice Tepper Marlin (212) 691-8550

CEP is a nonprofit research organization which evaluates the social performance of American corporations. CEP's results are published in books, reports and newsletters. The relationship between energy needs, economic growth, the environment and business responsibility has been discussed in *Power Plant Performance* and *Responding to Con Ed: An Analysis of the 1974 Costs of Indian Point and Alternatives.* CEP has undertaken a comparative study of the job creation potential of a nuclear plant versus an energy conservation/solar system on Long Island.

COUNCIL ON MUNICIPAL PERFORMANCE
84 Fifth Avenue, New York, New York 10011
Contact: John Tepper Marlin (212) 243-6603

COMP is a nonprofit research group which evaluates the managerial, fiscal, environmental, and social policies of American cities. COMP's energy-related research includes newsletter discussions of public transportation and solid waste recovery.

COUNCIL ON THE ENVIRONMENT OF NEW YORK CITY
51 Chambers Street, Room 228, New York, New York 10007
Contact: Lys McLaughlin (212) 566-0990

The Council is a nonprofit group which sponsors environmental improvement and awareness programs. The Council focuses primarily on public school grades in its efforts to implement energy curricula and instill conservation awareness. *Energy and the New York City Environment, Disclosure of Hidden Energy Demands: A Suggested Role for NEPA* and *Waste Oil Recycling: The New York Metropolitan Area Case* are recent publications.

EDISON ELECTRIC INSTITUTE
90 Park Avenue, New York, New York 10016
Contact: Halstead F. Dunham (212) 573-8700

EEI is the principal association of investor-owned electric utility companies. EEI prepares studies and reports concerning the electric utility industry and supplies pamphlets and films on energy conservation and development.

EMPIRE STATE ELECTRIC ENERGY RESEARCH CORPORATION
1271 Avenue of the Americas, New York, New York 10020
Contact: Dr. George Watkins (212) 246-4300

ESEERCO is a research organication founded and supported by New York State's seven major electric utilities and the Power Authority. Its principal focus is development of future electric power supplies. ESEERCO's annual report describes the research and development plans of ESEERCO and the New York utilities.

ENERGY RESEARCH GROUP OF WESTERN NEW YORK, THE
Environmental Design Associates
51 Symphony Circle, Buffalo, New York 14201
Contact: David T. Stieglitz (716) 881-3550

ERG was formed in 1973 to provide a forum for the exchange of energy problem-solving ideas. It has focused on marketing and development of alternative energy systems, particularly wind turbine and passive solar energy unite. Current studies include an examination of the energy conservation potential of western New York.

ENERGY TASK FORCE
156 Fifth Avenue, New York, New York 10010
Contact: David Norris (212) 675-1920

ETF is a nonprofit group working with low income housing groups in New York City. ETF does consulting and design work involving energy conservation techniques, solar energy and wind technology as they apply to the energy problems of urban low income residents.

ENVIRONMENTAL ACTION COALITION
156 Fifth Avenue, Suite 1130, New York, New York 10010
Contact: Seymor Josephson (212) 929-8481

EAC is a nonprofit organization whose purpose is to further environmental education, particularly in the area of solid waste and conservation. EAC publishes a series of newsletters on such topics as waste recycling and methane recovery, urban plants and conservation.

ENVIRONMENTAL DEFENSE FUND
475 Park Avenue South, New York, New York 10016
Contact: Arlie Schardt (212) 686-4191

EDF is a national organization of scientists, lawyers, and economists concerned with environmental quality, energy, health and consumer welfare. EDF engages in litigation and was, e.g., instrumental in the lawsuit which brought about the banning of DDT. EDF's newsletter reports on current legislation, court suits, hearings, etc.

ENVIRONMENTAL LAW INSTITUTE
1340 Connecticut Avenue, N.W., Washington, D.C. 20036
Contact: Fred Anderson (202) 452-9600

ELI is a nonprofit national research center engaged in analysis of the law of environmental protection and natural resource use and institutional arrangements for environmental policy. ELI publishes the *Environmental Law Reporter* which updates developments in environmental law. *Energy Conservation in Buildings: The New York Metropolitan Region* and *Legal Barriers to Solar Heating and Cooling in Buildings* are other ELI publications.

ENVIRONMENTAL PLANNING LOBBY
109 State Street, Albany, New York 12207
Contact: Marilyn M. Dubois (518) 462-5526

EPL is a New York State coalition of environmental organizations which lobby for environmental protection laws and regulations. EPL publishes newsletters, legislative alerts, policy statements and an annual *Environmental Voter's Guide*, listing the environmental voting record of New York State legislators.

ENVIRONMENTAL TECHNOLOGY SEMINAR
P.O. Box 391, Bethpage, New York 11714
Contact: David Lubell (516) 931-3200

ETS is a nonprofit organization working with the educational and professional communities which aims to inform the public on environmental issues and energy alternatives. ETS has researched the use of refuse to generate electricity, conducted seminars and workshops on solar energy and given testimony before the Public Service Commission. ETS also provides speakers and holds lectures on energy and environmental subjects.

FRIENDS OF THE EARTH
72 Jane Street, New York, New York 10014
Contact: Lorna Salzman (212) 675-5911

Friends is a nonprofit organization concerned with conservation and environmental matters and is active in lobbying for environmentally sound legislation on the Federal, state and local levels. It is part of a worldwide network of independent Friends organizations in thirteen countries. Friends publishes a newsletter entitled *Not Man Apart;* a recent article written by Amory Lovins and entitled "Energy Strategy: The Road Not Taken?" discussed alternatives to nuclear power and centralized energy sources.

INFORM, INC.
25 Broad Street, New York, New York 10004
Contact: Joanna Underwood (212) 425-3550

INFORM is a nonprofit organization which studies the impact of corporations on the environment, employees and consumers. *Energy Futures* is a major INFORM report on industry research and development of new energy sources. INFORM also conducts seminars and has a newsletter service.

INSTITUTE FOR ENERGY ANALYSIS
P.O. Box 117, Oak Ridge, Tennessee 37830
Contact: Ned Treat (615) 483-8411

IEA was established in 1974 as a division of Oak Ridge Associated Universities to examine national energy policy on a long-range basis. IEA analyzes supply projections, economic consequences associated with various energy scenarios and technological alternatives. Most of IEA's findings are reviewed and adopted by ERDA and other government agencies. IEA has published numerous reports and research papers, some of which are available from the Institute in limited quantities.

INSTITUTE FOR PUBLIC TRANSPORTATION
211 East 43rd Street, New York, New York 10017
Contact: Robert N. Rickles (212) 661-4370

IPT is a nonprofit research organization whose principal focus in public transportation. ITP is also concerned with the environment and energy conservation. It conducts public forums on such matters as transit fares and alternative modes of transportation.

LEAGUE OF WOMEN VOTERS OF NEW YORK STATE
817 Broadway, New York, New York 10003
Contact: Publications Department (212) 677-5050

The League is a nonprofit organization designed to promote informed citizen participation in government. It has published *Energy Dilemmas, An Overview of U.S. Energy Problems and Issues* (Pub. No. 688) and *Energy Options, Examining Sources and Defining Government's Role* (Pub. No. 628) discussing the political, social and economic aspects of the energy crisis.

NATIONAL ALLIANCE TO SAVE ENERGY
1925 K Street, N.W., Washington, D.C. 20006
Contact: Richard L. McGraw (202) 857-0666

NASE is a nonprofit national coalition of persons from diverse walks of life whose objective is to bring about energy conservation through voluntary reductions of energy usage. NASE also seeks to increase public awareness of energy issues through educational campaigns, fact sheets, newsletters, etc.

NATIONAL ASSOCIATION OF HOME BUILDERS RESEARCH FOUNDATION
P.O. Box 1627, Rockville, Maryland 20850
Contact: Arthur Johnson (301) 762-4200

NAHB has undertaken research to improve energy systems for new home construction. In conjunction with HUD, NAHB recently constructed an energy efficient home utilizing available construction techniques and materials. Initial studies indicate that substantial energy savings and short payback periods are feasible for new homes using the techniques employed. Write for a factsheet.

NATIONAL ENERGY FOUNDATION
521 Fifth Avenue, New York, New York 10017
Contact: Ann Borden (212) 697-2920

NEF is a nonprofit organization designed to promote concern for energy related problems in schools and among the general population. NEF sponsors the Student Exposition on Energy Resources (SEER) an exhibit of prize-winning energy concept models constructed by New York City junior and senior high school students.

NATIONAL MINERAL WOOL INSULATION ASSOCIATION, INC.
382 Springfield Avenue, Summit, New Jersey 07901
Contact: Sheldon Cady (201) 277-1550

NMWIA is a nonprofit association of eight mineral wool insulation manufacturers. NMWIA has developed pamphlets, publications and a slide presentation that explains insulation techniques and the potential savings from additional insulation.

NATIONAL SCIENCE TEACHERS ASSOCIATION
1742 Connecticut Avenue, N.W., Washington, D.C. 20009
Contact: John M. Fowler (202) 265-4150

NSTA is the professional organization for science teachers. NSTA is active in energy education and is currently working on the National Energy Curriculum Project, the goal of which is a comprehensive energy curriculum for grades 1 through 12. NSTA has available curriculum units, lesson plans, a bibliography, fact sheets and *The Energy-Environment Source Book* which provides background material on energy issues for teachers.

NATIONAL SOLAR HEATING AND COOLING INFORMATION CENTER
P.O. Box 1607, Rockville, Maryland 20850
800-523-2929

The Center was established by ERDA and HUD in 1976 to supply information on solar energy systems, particularly for home building, and to accelerate development of the solar building market. Also, the Center has a mobile solar van which travels around the country to energy fairs and conventions providing solar energy information. Write or call the toll free number.

NATURAL RESOURCES DEFENSE COUNCIL
122 East 42nd Street, New York, New York 10017
Contact: John H. Adams (212) 949-0049

NRDC is a nonprofit organization of attorneys, environmentalists and scientists devoted to development of environmental policy and enforcement of environmentally sound laws and regulations. NRDC articles and testimony have dealt with the cost and safety issues associated with nuclear energy. NRDC reports have covered topics including air and water pollution, forestry and land use.

NYC CLEAN AIR CAMPAIGN, INC.
11 West 42nd Street, New York, New York 10036
Contact: Marcy Benstock (212) 354-5066

CAC helps neighborhood groups press for environmentally sound transportation and land use patterns and aids local, state and national coalitions which favor improved mass transit service and less highway construction. CAC opposes the West Side Highway (Westway) project and is involved in efforts to redirect federal funds into mass transit.

NEW YORK PUBLIC INTEREST RESEARCH GROUP
5 Beekman Street, New York, New York 10038
Contact: Donald K. Ross (212) 349-6460

NYPIRG is a research and advocacy group organized and directed by New York State University and college students. NYPIRG research topics include consumer protection, government and fiscal responsibility and energy. Energy studies have centered on the need for conservation and the risks, costs and environmental impact of nuclear energy. NYPIRG has regional offices in Albany, Vestal, Buffalo, Syracuse, Brooklyn and Queens.

NEW YORK STATE ALLIANCE TO SAVE ENERGY, INC.
36 West 44th Street, Suite 709, New York, New York 10036
Contact: Richard M. Berman (212) 840-8383

NYSATSE is a private nonprofit alliance of persons from all walks of life whose goal is to "popularize" the discussion of energy and energy conservation. NYSATSE projects include a TV energy conservation series featuring the *Star Wars* character R2D2, a write-in information center, an industrial energy conservation program, curriculum development and a speakers bureau.

NEW YORK STATE COMMITTEE FOR JOBS AND ENERGY INDEPENDENCE, INC.
211 East 43rd Street, New York, New York 10017
Contact: Barbara Erlichman (212) 986-1188

CJEI is a nonprofit coalition of labor, utilities and industry representatives and educations which seeks to promote energy policies that create jobs. CJEI supports the West Side Highway (Westway) project, a solar power research facility on Long Island and a nuclear power plant in Cementon, New York.

OPERATION OPEN CITY, INC.
103 East 125th Street, New York, New York 10035
Contact: Eileen Lee (212) 427-0300

OOC conducts, free of charge, a New York City-wide Federally funded weatherization program for low income multi-family dwelling tenants. Weatherization entails caulking, weather-stripping, insulating, boiler checks, etc. to decrease energy costs while upgrading living conditions. Call to determine eligibility.

PEOPLES POWER COALITION, THE
260 Lark Street, Albany, New York 12210
Contact: Denise Young (518) 449-7444

PPC is the coordinative arm for grass roots organizations which provide technical assistance and training in public utility research and policy development. PPC has intervened in rate making cases, researched high voltage transmission, opposed nuclear power development and investigated municipal power districts. Regional offices are located in Buffalo, Rochester, Canton, Binghamton, Oswego and New York City.

PRATT INSTITUTE CENTER FOR COMMUNITY AND ENVIRONMENTAL DEVELOPMENT
275 Washington Avenue, Brooklyn, New York 11205
Contact: Ron Shiffman (212) 622-5026

The Center provides training and technical assistance to low and moderate income neighborhood residents on environmental, housing and consumer affairs issues. It also publishes *Street* which is devoted to housing, urban development, nutrition and health, consumer affiars and the environment.

REGIONAL PLAN ASSOCIATION
235 East 45th Street, New York, New York 10017
Contact: Sheldon Pollack (212) 682-7750

RPA is a nonprofit civic association concerned with development of the 31 county NY, NJ and Conn. region. RPA makes recommendations on land use, transportation, open space, thermography and the economy. *Regional and Land Use Policy, Regional Energy Consumption* and *Power for the MTA* are RPA studies. The April 1977 issue of RPA's newsletter discusses the impact of the proposed National Energy Plan on the tri-state area.

RESOURCES FOR THE FUTURE
1755 Massachusetts Avenue, N.W., Washington, D.C. 20036
Contact: Kent A. Price (202) 462-4400

RFF is a nonprofit organization which undertakes research and education in the development, use and conservation of material resources and in improvement of environmental quality. RFF publishes a bulletin entitled *Resources* (available free of charge) and has also published more than 200 books, many on energy problems.

SCENIC HUDSON PRESERVATION CONFERENCE
545 Madison Avenue, New York, New York 10022
Contact: Robin Whyatt (212) 755-3082

SHPC, a nonprofit group, was organized in 1963 in opposition to construction of Con Ed's pump-storage hydroelectric plant at Storm King Mountain and now devotes considerable attention to architectural design, the economics of coal vs. nuclear power and alternative sources of energy such as solar and wind energy. SHPC publishes *Energy Update* to provide homeowners and apartment dwellers with practical information about energy alternatives.

SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION
355 Lexington Avenue, New York, New York 10017
Contact: Alan McGowan (212) 661-9110

SIPI is a nonprofit organization composed mostly of scientists and serves as a clearinghouse for science information. It seeks to focus concerned scientists' attention in areas of social interest and provide citizens with sufficient information to enable them to make informed judgments. SIPI publishes *Environment* which frequently contains articles on energy alternatives and *SIPISCOPE* a newsletter dealing with energy issues. SIPI maintains a speakers bureau and a science library.

SHELTER INSTITUTE
72 Front Street, Bath, Maine 04530
Contact: Pat Hennin (207) 443-9084

SI is a resource center for people who want to build their own homes and include energy alternatives. Located in a rustic camp setting, SI offers a series of courses – for a fee – on design, siting and construction, including field work in each phase. The SI bookstore stocks materials on design and construction, wood uses and alternative energy systems.

SIERRA CLUB, ATLANTIC CHAPTER
800 Second Avenue, New York, New York 10017
(212) 687-5924

SC is a national nonprofit organization dedicated to protection of America's natural resources and wilderness. SC publishes *Information Service Literature List* which includes articles on shale oil, nuclear power and solar energy. SC also publishes a monthly magazine entitled *Sierra Club Bulletin* and several subscription newsletter services devoted to environmental protection.

SMITHSONIAN INSTITUTION
1000 Jefferson Drive, S.W., Washington, D.C. 20560
Contact: Richard L. Ault (202) 628-4422

SI is a trust establishment which conducts scientific and scholarly research, administers the national collections and performs a variety of educational public service functions. SI is planning an energy exhibition.

SOLAR ENERGY INDUSTRIES ASSOCIATION
Suite 632, 1001 Connecticut Avenue, N.W., Washington, D.C. 20036
Contact: John Blake (202) 293-1000

SEIA is a trade association of manufacturers, contractors, architects and engineers who are involved in the development of solar energy systems. SEIA sponsors conferences on solar systems and publishes the *Solar Engineering Magazine* which contains information on solar legislation, technology, commercial development and policy proposals.

SOLAR ENERGY INSTITUTE OF AMERICA, INC.
1110 6th Street, N.W., Washington, D.C. 20001
Contact: Luana Moore (202) 667-6611

The purpose of this nonprofit organization is to foster the use and development of solar energy systems. SEINAM provides information on solar systems through exhibits, seminars, publications and a public information telephone line. SEINAM membership entitles one to a catalog of solar energy products and services and a newsletter listing solar publications.

SPECIAL COMMITTEE ON ENERGY
Association of the Bar of the City of New York
42 West 44th Street, New York, New York 10036
Contact: Sheldon Raab (212) MU2-0606

The Committee was established in 1975 on the theory that the Bar could and should make a contribution to the search for a national energy policy. It has published a statement on a national energy policy and analyses of legislative proposals and existing energy problems. The Committee also sponsors public forums on energy policy issues.

UPSTATE COMMUNITY RESOURCE INSTITUTE, INC.
P.O. Box 732, Ithaca, New York 14850
Contact: Virginia Gallagher (607) 277-3505

UCPI is a nonprofit research and education center which provides training and information to organizations interested in New York State energy problems, particularly in the area of electric power generation.

WORLDWATCH INSTITUTE
1776 Massachusetts Avenue, N.W., Washington, D.C. 20036
Contact: Bruce Stokes (202) 452-1999

WI is a nonprofit organization which seeks to focus attention on global problems and social trends. Current publications include: *Nuclear Power: The Fifth Horseman, Energy: The Solar Prospect,* and *Energy: The Case for Conservation.* Write for WI Papers Order Form. (See also bibliography section of this booklet.)

GOVERNMENT AGENCIES

COMMUNITY SERVICES ADMINISTRATION
1200 19th Street, N.W., Washington, D.C. 20506
Contact: Miriam Charnow (202) 254-5240

CSA (the successor to the Office of Economic Opportunity) is the Federal anti-poverty agency. It administers community action programs and has funded numerous community action agency weatherization projects throughout New York State. CSA has also provided funding for wind and solar energy experimentation. A number of booklets describing do-it-yourself weatherization techniques, potential fuel bill savings and other government weatherization grants are available from CSA.

DEPARTMENT OF ENERGY
12th Street and Pennsylvania Avenue, N.W., Washington, D.C. 20461
Contact: Office of Public Information

DOE was recently created by the Congress to bring together into an executive department the major existing Federal energy agencies and programs. Dr. James R. Schlesinger has been selected the first Secretary of DOE. DOE is responsible for formulating and implementing energy policy, including conservation programs, research and development of new technologies and supplies, regulation of interstate energy transfers and the dissemination of information. Included in the new Department are FEA, ERDA, and FPC (the latter having been renamed Federal Energy Regulatory Commission). DOE is also assuming certain energy related functions which were previously within the Departments of Commerce, Interior and Housing and Urban Development.

The following are brief descriptions of agencies which are now part of DOE:

ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
20 Massachusetts Avenue, N.W., Washington, D.C. 20545
Contact: Office of Public Affairs (202) 376-4000

ERDA was established by the Congress to direct – and provide funding for – energy research and development.

FEDERAL ENERGY ADMINISTRATION
12th Street and Pennsylvania Avenue, N.W., Washington, D.C. 20461
Contact: Office of Public Affairs (202) 566-7834

FEA was established by the Congress to insure that energy supplies remain adequate to meet the nation's needs. FEA has undertaken policy and program development in the fields of energy conservation and production and also provides energy information through publications and the National Energy Information Center (202-566-9820).

FEDERAL ENERGY REGULATORY COMMISSION (FEDERAL POWER COMMISSION)
825 North Capitol Street, N.E., Washington, D.C. 20426
Contact: Office of Public Information (202) 275-4006

FERC was established by the Congress to regulate the interstate flow of electricity and natural gas. It investigates, sets rates and establishes operating criteria. The Commission also publishes reports on the natural gas and electric power industries.

ENVIRONMENTAL STUDY CONFERENCE
3349 House Annex #2
U.S. Congress
Washington, D.C. 20515
Contact: Mike McCabe (202) 225-2988

ESC is a bipartisan caucus of more than 280 members of Congress who share an interest in environmental and related energy issues. Each Monday during the Congressional session, ESC publishes for its members the *Weekly Bulletin* which summarizes pending environmental legislation, reports on environmental activities inside and outside of Congress and contains a status chart on major environmental legislation.

NATIONAL TECHNICAL INFORMATION SERVICE, DEPARTMENT OF COMMERCE
5285 Port Royal Road, Springfield, Virginia 22161
Contact: General Information Department (703) 557-4600

NTIS is a Federal clearinghouse for thousands of technical research reports produced by and for the Federal government. NTIS issues a "Weekly Government Abstract" describing the energy research reports that are available to the public. (There is a charge for the reports and a subscription fee for the weekly abstracts.)

NEW YORK CITY DEPARTMENT OF CONSUMER AFFAIRS
80 Lafayette Street, New York, New York 10013
Contact: Office of Consumer Information (212) 566-0435

The Department enforces local laws relating to the advertisement and sale of consumer goods and services and makes recommendations and conducts research in the field of consumer protection. The Department also licenses home improvement contractors within the City of New York, including those engaged in weatherization, energy system installation, etc.

NEW YORK STATE CONSUMER PROTECTION BOARD
99 Washington Avenue, Twin Towers, Albany, New York 11210
Contact: Office of Public Information (518) 474-8583

CPB coordinates New York State's consumer protection activities. It represents consumers before Federal, state and local agencies and assists local governments in developing consumer protection programs. PCB has participated in the development of State energy policies and has begun an investigation into the adequacy of warranties for new energy products.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road, Albany, New York 12233
Contact: Paul J. Merges (518) 474-2121

The Department has responsibility for enforcing the State Environmental Conservation Law. It has also participated in the development of New York's energy policies, presented testimony on such topics as the environmental impacts of the National Energy Plan and the siting of electric power plants and high energy transmission lines. The Department is also investigating alternative energy sources.

NEW YORK STATE EDUCATION DEPARTMENT
Albany, New York 12234
Contact: Bureau of General Education Curriculum Development
(518) 474-5921

The State Education Department has published some general reference and curriculum materials on the environment and energy. Publications, which include an interdisciplinary teachers' guide, an environmental syllabus and environmental education curriculum units, are available to teachers for instructional use upon written request from their school principals. New Your State residents may purchase single copies at cost and write to the Publications Distribution Unit for a bibliography.

NEW YORK STATE ENERGY OFFICE
Swan Street Building, 2nd Floor, Albany, New York 12223
Contact: Carol Ash (518) 474-8313

SEO was created by the State legislature in 1976 to help develop and implement broad energy policy objectives established by the State. SEO has developed the New York State Energy Conservation Plan which will include among other programs a weatherization program for low-income homes and an energy audit program to provide homeowners with estimates of their weatherization needs and potential savings from weatherization. SEO supports individual metering for all new apartment buildings and is establishing thermal and lighting efficiency standards to promote commercial and residential energy conservation. An advisory service will aid farmers and small- and medium-sized industries in obtaining conservation information. Copies of the State Energy Plan are available.

NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY
230 Park Avenue, New York, New York 10017
Contact: Margery Held (212) 986-5090; (518) 474-8313 after February 1978

NYS ERDA engages in research, development and demonstration of energy conservation measures and energy technologies with emphasis on renewable sources the promote economic growth while protecting the environment. Its program includes funding of business, industry and academic energy research projects and publication of research reports on such topics as solar and wind energy, coal waste management, low level heat recovery and fluidized-bed combustion studies.

NEW YORK STATE PUBLIC SERVICE COMMISSION
Empire State Plaza, Albany, New York 12223
Contact: Joseph Rizzuto (518) 474-1931

PSC has regulatory authority – including rate making powers – over New York State's electric, gas and water utility companies. Recent areas of increased concern are time-of-day pricing, residential insulation standards and master metering. *A Summary of the Energy Management And Conservation Programs in New York State,* O.R. Report A-1, February, 1976 is a useful PSC publication. Copies are available, free of charge, from the PSC Central Library.

The PSC also maintains a Public Documents Room at 2 World Trade Center, New York City.

NUCLEAR REGULATORY COMMISSION
Washington, D.C. 20555
Contact: Office of Public Affairs (301) 492-7771

NRC is an independent regulatory commission with responsibility for the commercial uses of atomic energy in the United States. NRC licenses and approves the construction and operation of nuclear power electric generating plants and has undertaken research on reactor safety, power plant siting and waste disposal.

POWER AUTHORITY OF THE STATE OF NEW YORK
10 Columbus Circle, New York, New York 10019
Contact: Public Relations Office (212) 397-6200

PA is a state agency which supplies electricity to municipalities, public bodies, investor-owned utilities and certain industrial customers. PA has applied for licensing to construct solid waste, nuclear and pump-storage plants. PA also undertakes research and development projects and distributes publications, including those that outline home and business energy conservation techniques and a 45 page booklet entitled *Our Energy Problems and Solutions.*

RESEARCH APPLIED TO NATIONAL NEEDS, NATIONAL SCIENCE FOUNDATION
1800 G Street, N.W., Washington, D.C. 20550
Contact: Public Information Branch (202) 632-5728

RANN, a program of the National Science Foundation, focuses scientific and technical knowledge on issues of national importance, such as the environment, national resources, industry productivity and energy. RANN makes grants in these areas and serves as a liaison between the NSF's research activities and the development and demonstration programs of other levels of government and industry. RANN annually issues hundreds of reports based upon research that it supports and publishes an index to the studies, *Recent RANN Reports.*

SUPERINTENDENT OF DOCUMENTS
United States Government Printing Office, Washington, D.C. 20042
Contact: Receptionist (202) 783-3238

GPO prints and distributes government publications. *Energy Conservation and Resources,* #SB - 058, August 17, 1976, is a bibliography available free of charge which lists Federal energy publications.

UTILITIES

Listed below are the seven major utility companies in New York State. Programs which may be of interest are mentioned; no attempt is made to evaluate or distinguish programs which may be promotional. It should be noted that as a result of a recently enacted New York State law (Home Insulation and Energy Conservation Act, Chapter 858, August 11, 1977), the utilities will be required to conduct home energy audits and to provide financial and technical assistance to eligible customers for weatherization and energy conservation systems. Following the utility companies is a description of the New York Power Pool.

BROOKLYN UNION GAS
195 Montague Street, Brooklyn, New York 11201
Contact: Office of Public Relations (212) 643-2000
Pamphlets; films on energy conservation; insulation loan program for customers; technical assistance.

CENTRAL HUDSON GAS AND ELECTRIC COMPANY
284 South Avenue, Poughkeepsie, New York 12602
Contact: Information Services (914) 452-2000
Educational pamphlets; speakers bureau; energy films.

CONSOLIDATED EDISON COMPANY OF NEW YORK
4 Irving Place, New York, New York 10003
Contact: Office of Consumer Affairs (212) 460-5171
Pamphlets; conservation exhibits; a home loan insulation program for gas customers; technical assistance; speakers bureau.

LONG ISLAND LIGHTING COMPANY
250 Old Country Road, Mineola, New York 11501
Contact: Dorothy Dinsmoor (516) 228-2179
Pamphlets, seminars, in-plant energy management surveys.

NIAGARA MOHAWK POWER CORPORATION
300 Erie Boulevard West, Syracuse, New York 13202
Contact: Public Relations Office (315) 474-1511
Pamphlets; speakers bureau; technical assistance; energy films.

ORANGE AND ROCKLAND UTILITIES
One Blue Hill Plaza, Pearl River, New York 10965
Contact: Public Communications Office (914) 352-6000
Pamphlet; speakers bureau; technical assistance.

ROCHESTER GAS AND ELECTRIC COMPANY
89 East Avenue, Rochester, New York 14649
Contact: Public Information Office (716) 546-2700
Pamphlets; speakers bureau; home owner seminars; technical assistance.

NEW YORK POWER POOL
3890 Carman Road, Schenectady, New York 12303
Contact: Bryan Gosling (518) 381-2202
NYPP was established by New York's seven major investor-owned electric utilities and the State Power Authority to coordinate the development and operation of electric production and transmission facilities in New York. The Pool conducts tours of its control center in Schenectady and distributes literature and information on electric energy, nuclear energy, transmission facilities, conservation, etc.

BIBLIOGRAPHY

THE CONCEPT OF CONSERVATION

THE AMERICAN ENERGY CONSUMER – D. Newman and D. Day. Ballinger Publishing Co., Cambridge, Mass. 1975. $17.50. An excellent overview of American energy use, this report to the Ford Foundation analyzes patterns of consumption of various types of fuels by different socio-economic sectors of the population. A series of fascinating family case histories provides a backdrop for more objective consideration of the relationship between upward mobility and increased energy use coupled with an historical perspective of our increasingly energy dependent society. Recommendations for slowing national energy consumption are provided. The report is interesting, non-technical, and highly recommended to all consumers.

CONSERVING ENERGY: PROSPECTS AND OPPORTUNITIES IN THE NEW YORK REGION – Joel Darmstadter. Johns Hopkins University Press, Baltimore, 1975. $8.95. A careful study of energy consumption in the New York region which considers usage by each of the major public and private sectors. Projections of future use are formulated based on both conservation and non-conservation scenarios, and suggestions for implementing energy conserving techniques in each of the consuming sectors are discussed. Appropriate for the lay person seeking a data-filled analysis of our region.

FROM THE GROUND UP – John Cole and Charles Wing. Little, Brown and Co., Boston. 1976. $7.95. A thoroughly delightful and informative autobiographical sketch of homebuilding, suggesting that anyone with a little mechanical skill and a lot of ingenuity can build his own energy and space efficient home. Information on a variety of housebuilding ideas is included and little if any detail is missed. Easy to follow for the beginner and very highly recommended.

ENERGY AND THE EARTH MACHINE – Donald E. Carr. W. W. Norton & Co., N.Y. 1976. $10.00. In a comprehensive analysis of the uses and misuses of energy, Carr surveys oil, coal, nuclear power and alternative energy sources. For each, he provides an historical overview of its growth and development, its technical applicability and projected costs, and its current use in relation to its potential. A balanced, well written, easily understandable report.

ENERGY: THE CASE FOR CONSERVATION. Worldwatch Paper IV – Denis Hayes. Worldwatch Institute, Washington, D.C., 1976. $2.00. An exquisitely researched and detailed discussion of the benefits of energy conservation on a national and global level. Energy use and abuse in transportation, building, food, waste disposal and their economic effects are considered in light of the present situation and the outcome of future conservation possibilities. An invaluable work in this field.

NEIGHBORHOOD POWER: THE NEW LOCALISM – Morris and Hess. Beacon Press, Boston. 1975. $3.45. This book analyzes the many successful means by which neighborhoods can effectively organize to achieve a degree of political, economic, and practical solidarity. Emphasis is placed on instilling a sense of neighborhood awareness to precipitate economic growth, foster community businesses, strengthen individual rights, and initiate effective political representation. Pitfalls and problems of community organization are considered. Important to urban dwellers seeking community unity to achieve neighborhood conservation programs and energy alternatives.

TOWARD A RATIONAL POWER POLICY: ENERGY, POLITICS, AND POLLUTION – Neil Fabricant & Robert M. Hallman. George Brazilier, N.Y. 1971. $3.95. Originally submitted to the Office of the Mayor of New York as a study of a proposed electric power plant expansion in 1970, this report analyzes the problems arising from the lack of a clear and rational long-term energy policy. It is critical of the high inefficiency of large power plants, the low priority placed on research and development by the utility companies, as well as the lack of proper control exercised by the public regulatory agencies, and recommends decreasing overall energy demand and postponing nuclear plant construction until the environmental and health hazards are resolved. The report provides an interesting analysis of the problems of nuclear power and the operations of public utilities and state government.

SMALL IS BEAUTIFUL: ECONOMICS AS IF PEOPLE MATTERED – E. F. Schumacher. Harper and Row, Torchbook, N.Y. 1973. $3.75. This book is credited with introducing the concept of appropriate technology (defined as the application of clean, renewable, inexpensive, locally available forms of technology). It expresses a shift in thinking away from capitally intensive, highly technological methods of problem-solving. Clearly written and highly regarded in Europe and Third World countries as well as in the U.S., it presents the classic case for the current movement toward reliance upon renewable resource technology.

CONSERVING WHAT WE HAVE

CHILTON'S MORE MILES-PER-GALLON GUIDE – Ronald M. Weiers. Chilton Book Co., Radnor, Pa. 1974. A well written guide with excellent charts, illustrations, and photos which provides tips for effectively reducing gasoline consumption without severely altering driving habits or lifestyle. Information is given on how to buy, drive, and maintain a gas-efficient car. Valuable explanations of the forces that impair efficient gasoline use, and methods for overcoming these forces are provided. Witty and direct, the guide is a must for car users seeking better gas mileage.

EASI-GUIDE TO CONSERVING ENERGY AND MATERIALS – Forest H. Belt, Marti McPherson, and Pat Constable. Howard W. Sams & Co., Inc., Indianapolis. 1974. $3.50. This easy-to-read book contains a multitude of practical suggestions for energy and conservation. Topics included are gasoline powered vehicles (with boats and lawnmowers discussed along with automobiles); large and small home appliances; home heating and cooling systems; home decoration; "personal" energy; meal planning; and recycling and general conservation plans. All suggestions are easy to implement, require little or no financial investment, and are applicable to items commonly utilized in homes and apartments. A very useful conservation primer.

THE ENERGY MISER'S MANUAL – William H. Morrell. The Grist Mill, Eliot, Maine. 1974. A short but factual manual on energy conservation for the homeowner with excellent charts, diagrams, and illustrations. Discussions include gasoline savings, insulation, appliance use and maintenance, and use of solar, wind, and wood power. Resource lists of supply and information centers are provided. Straightforward, factual, and easy reading.

THE ENERGY-SAVING GUIDEBOOK – George Springer & Gene Smith. Technomic Publishing Co., Westport, Conn. 1974. This book provides sound advice to homeowners for saving energy. Simple explanations of conservation measures (from heating oil through electricity and gasoline use) are supported by charts, diagrams, and checklists. The advice is straightforward, precise, and informative, and will be helpful to all lay energy users seeking information for effectively reducing energy consumption in home and car.

THE HOMEOWNER'S ENERGY GUIDE – John A. Murphy. Thomas Y. Crowell Co., N.Y. 1976. $6.95. Provides a good basic explanation of essential energy conservation terms and techniques and contains many hints on energy-efficient building methods. A valuable work section contains check lists for insulating ceilings, wood floors, attics, furnaces, exterior doors and fireplaces, as well as equations for the calculation of fuel cost factors and "U" values and work sheets to determine conductive losses, convective losses and air infiltration losses. Of particular interest to anyone building his/her own home.

HOMEOWNER'S GUIDE TO SAVING ENERGY – Bill and Jim Price. TAB Books, Summit, Pa. 1976. $5.95. A more detailed book on energy conservation than most of its kind, this work introduces the reader to "conservation language" – "U", "R", and "K" values, vapor barriers, and "loose fill insulation." Useful for both the do-it-yourselfer and the person interested in contracting out work. Comprehensive explanations of heating systems, garage insulation, air conditioning maintenance, and computing fuel costs are included, as is a guide to reducing electrical consumption and an introduction to simple solar systems. One of the best books on total energy savings for the home.

HOW TO CUT YOUR ENERGY BILLS – Ronald Derven and Carol Nichols. Structures Publishing Co., Farmington, Mich. 1976. A highly detailed and technical home energy conservation work which examines heating and cooling methods, ventilation, lighting, home appliances, and complementary heating systems, plus examples of existing energy-saving homes. Glossary and resource lists are included. One of the most comprehensive books on energy savings and conservation design which should not be overlooked by the homeowner willing to make a serious commitment to energy efficiency.

HOW TO SAVE GASOLINE: PUBLIC POLICY ALTERNATIVES FOR THE AUTOMOBILE – Sorrel Wildhorn et al. Ballinger Publishing Co., Cambridge, Mass. 1976. An exhaustive study undertaken by the Rand Corporation to promote automobile gasoline conservation. Recommendations for decreasing automotive energy consumption include increases in gasoline prices, car weight reduction and other technological improvements to develop more fuel-efficient automobiles at the lowest possible prices. Many alternative engine and body designs are discussed, and a comprehensive section is devoted to the viewpoints of auto manufacturers and their critics. With many charts and statistics to support its conclusions, it is of special value to readers interested in the future of the automobile.

IN THE BANK . . . OR UP THE CHIMNEY? – Dept. of Housing and Urban Development. 1975. $1.70 from the U.S. Govt. Printing Office, Washington, D.C. 20402. stock #023-000-00297-3. This simple, step-by-step manual suggests low cost ways of improving conservation in the home. The three-part format provides an overview of savings derived from caulking and weatherstripping windows and doors, insulating attics, basements, walls, floors and ceilings, and adjusting thermostatic controls, helps the reader determine which improvements are appropriate to his needs, and finally gives complete and simple instructions for implementing the improvements. Several charts help the reader determine costs of and annual savings derived from construction; additional tips for maintenance and repair of heating and air-conditioning equipment is included. An excellent, informative, easy-to-use book. (Also published under the following titles: HOW TO INSULATE YOUR HOME AND SAVE FUEL – Dover Books, $2.00; HOW TO KEEP YOUR HOUSE WARM IN WINTER/ COOL IN SUMMER – Cornerstone Library, $2.95; YOUR GUIDE TO ENERGY-SAVING HOME IMPROVEMENTS – Grosset & Dunlap, $1.95.)

KILOWATT COUNTER: A CONSUMER'S GUIDE TO ENERGY CONCEPTS, QUANTITIES AND USES. Gil Friend and David Norris. Alternative Sources of Energy Magazine, pub., Rte. 2, Box 90A, Milaca, Minn. $2.00. The basic concepts and language of energy simply and fully described. Included are equations for determining kilowatt hour use of home appliances, finding energy efficiency ratings for air conditioners, and average energy efficiencies for various forms of transportation plus energy ratings for renewable resources. A comprehensive introduction to the problems of energy wastefulness, fossil fuels and the hope for renewable resources is provided. A handy book.

LOW-COST, ENERGY-EFFICIENT SHELTER FOR THE OWNER AND BUILDER – Eugene Eccli, Ed. Rodale Press, Inc., Emmaus, Pa. 1976. $10.95. An extremely practical consumer guide, complete with illustrations, resources lists, and glossary useful to individuals considering an alternative in living needs. Costs and benefits of existing living arrangements (cooperative and private home ownership and apartment rental) are considered as well as various means of financing a home purchase. Many suggestions for reducing costs of construction are given, including choosing optimal environmental settings and proper materials, developing space efficiency, and renovating older buildings. Tips to increase operating efficiency and ways of decreasing utility bills are provided, as is a discussion of solar heating.

350 WAYS TO SAVE ENERGY (AND MONEY) IN YOUR HOME AND CAR – Henry R. Spies et al. Crown Publishers Inc., N.Y. 1974. An excellent book for all who wish to conserve energy. Explanations are given of temperature and energy units and terms such as BTU's, degree days, and air motion. Written in mildly technical, but comprehensible language the book provides comprehensive instruction and advice on how to effectively save energy in home and car. Topics included are insulation techniques, appliance use and maintenance, controlled and efficient use of heaters and air conditioners (including passive solar techniques), and methods of reducing gasoline consumption. The guide is a valuable contribution to home and car owners.

UTILIZATION OF WASTE-HEAT FROM POWER PLANTS – David Rimberg. Hayes Data Corp., Ridge Park, N.J. 1974. $18.00. A well documented study of energy waste in commercial buildings and suggestions for utilization of this energy. Solutions offered include better building design, use of solid waste as fuels, and use of durable vs. disposable goods. The report unfortunately presupposes increased use of fossil fuels and nuclear generated electricity and use of "high" rather than preferred "soft" technologies, but the solutions are worthy of attention. May be difficult for the novice, but should not be overlooked.

CLEAN, RENEWABLE ENERGY SOURCES

THE AUTONOMOUS HOUSE: DESIGN AND PLANNING FOR SELF-SUFFICIENCY – Brenda & Robert Vale. Universe Books, N.Y. 1975. $10.00. Written by two architects, this practical, informative account describes the development of houses that are independent from the utilities and municipal sewage systems through the use of solar and wind power. Topics include waste recycling, heat storage, and water supply. A model design for an autonomous house is included. Well documented with many helpful illustrations.

BROTHER SUN: A PHOTOGRAPHIC APPRECIATION – Dennis Stock. Sierra Club, San Francisco, 1974. $14.95. A special photographic/literary tribute to the beauty and wonder of the sun, and a useful reminder of its power.

BUILDING FOR SELF-SUFFICIENCY – Robin Clarke. Universe Books, N.Y. 1976. $5.95. This book discusses resources for developing a more self-sufficient life-style, from proper use of common tools and home construction techniques to alternative energy source use. Subjects include alternative materials use, insulation methods, plumbing and waste systems construction, and transportation and nutrition. The language is clear, but may require some previous background to follow construction information.

BUYING SOLAR – Joe Dawson. Federal Energy Administration and Dept. of Health, Education and Welfare. 1976. $1.85 from the U.S. Govt. Printing Office, Washington, D.C. 20402; stock #041-018-00120-4. Basic information on purchasing solar equipment written in a light, easy-to-read manner. Included are the language of solar energy, components of solar collection systems, insulation requirements, solar energy as an investment, consumer protection and solar energy, annual fuel savings calculation equations, economics of solar space and hot water heating and cooling, the dollar savings and payoff periods for various solar collectors, and solar heating potential surveys. An excellent and informative pamphlet.

A CITIZEN'S HANDBOOK ON SOLAR ENERGY – Anita Gunn. Public Interest Research Group, Washington, D.C. 1976. A brief overview of solar technologies, including solar heating and cooling, wind power, bioconversion, ocean thermal power, solar thermal conversion, and photovoltaic energy. A discussion of the value of decentralized energy systems and the history of and prospects for funding of solar research follows. Included are extensive references and information sources (governmental and private organizations) in the solar field. While a good introduction to solar energy, the often over-simplified text will necessarily lead the reader to more in-depth sources.

THE COMING AGE OF SOLAR POWER – D. S. Halacy. Avon Books, New York. 1973. $1.95. An excellent overview of the field of solar energy, *Coming Age* documents solar power's historical development, surveys its implementation and technological advances around the world, outlines the need and rationale for a non-polluting, renewable energy resource, and outlines theories for future developments. Interestingly written, it provides the lay person with easily understandable theory and application while offering more advanced readers a valuable reference work.

DESIGN FOR A LIMITED PLANET – Norma Skurka & Jon Maar. Ballantine Books, N.Y. 1976. $5.95. An exciting, in depth review of many well-known homes and apartments in the U.S. which utilize solar and other renewable energies. Discussions with owners/builders provide insight into construction techniques, costs and savings, adaptations in homeowners' lifestyles. Contains many diagrams and discusses many forms of both passive and active solar technologies. A list of sources and glossary of terms are provided. Easy and worthwhile reading.

DESIGN WITH WIND – Douglas R. Coonley. Total Environmental Action, Harrisville, N.H. 1974. An advocate of wind power, the author provides step-by-step descriptions of methods of obtaining maximum wind-energy output for different locations and types of wind systems. Explanations of wind tunnel tests for wind energy systems, detailed building diagrams, and a resource list of wind-collector manufacturers and designers are included. The book will be of particular interest to builders of wind energy systems.

DESIGNING AND BUILDING A SOLAR HOUSE: YOUR PLACE IN THE SUN – Donald Watson. Garden Way Publishing, Charlotte, Vt. 1977. $8.95 A discussion of alternative solar energy systems applicable for home use, including brief summaries of their history in the U.S. and basic principles of operation. Both passive and active solar systems are discussed. A brief review of the steps involved in building a solar home (choice of site, equipment, and construction techniques) and extensive resource lists are provided. The text is clearly written but assumes some prior knowledge.

DIRECT USE OF THE SUN'S ENERGY – Farrington Daniels. Ballantine Books, N.Y. 1964. $1.95. Written in the days of inexpensive fossil fuels, this highly scientific yet readable account advocates solar energy use in developing Third World countries where the cost of conventional fuels is prohibitive. Such practical uses of solar energy as cooking, heating and refrigeration, crop drying are discussed as is electricity derived through photovoltaic conversion. Each subject includes extensive theoretical concepts, principles and formulae. Although dated in many of its references, the theme of the text remains relevant.

THE ELECTRIC WISHING WELL: THE SOLUTION TO THE ENERGY CRISIS – Joseph J. Dicerto. Macmillan Publishing Co., N.Y. 1976. $12.95. A highly readable account focused on alternative energy sources to power our long term needs. Following a brief assessment of the current depletion of conventional fossil fuels and a study of the risks of nuclear power, reliance on electricity generated in a non-polluting manner is advocated as the best solution to the energy crisis. The major alternative technologies – solar, geothermal, wind power – are discussed. An optimistic book, especially valuable for its non-technical approach and use of easy-to-understand illustrations.

ENERGY, ENVIRONMENT AND BUILDING – Philip Steadman. Cambridge University Press, N.Y. 1975. $5.95. A survey of low technology methods used in the design of more energy efficient commercial buildings, with particular emphasis on solar energy use. Wind and water power, waste recycling, and water collection and conservation are also covered in the book's dictionary-like format. Extensive illustrations, charts and diagrams, and bibliographies and source references are provided. A good reference work for the advanced reader interested in architectural alterations of commercial buildings.

ENERGY FOR RURAL DEVELOPMENT: RENEWABLE RESOURCES AND ALTERNATIVE TECHNOLOGIES FOR DEVELOPING COUNTRIES – National Academy of Sciences. Washington, D.C. 1976. Written by a panel of experts in the energy development field, this book assesses possible sources of alternative energy for the Third World. Although high initial capital costs and dependence on conventional fossil fuels mitigate against widespread application of alternative technologies in the next decade, development of renewable resources is encouraged for the future. Various applications of solar energy, wind power, hydropower, and geothermal energy are discussed. Appendices include lists of energy research organizations and solar heating and cooling device manufacturers in selected countries. Highly informative.

ENERGY PRIMER: SOLAR, WATER, WIND AND BIOFUELS. Portola Institute, Friche-Parks Press, Inc., Fremont, Cal. 1974. $4.50. A detailed, technical description of four major areas of renewable resource technology. Diagrams and explanations of easy-to-make appliances which utilize these sources are provided. A glossary of terms, bibliography, and resource list make the book especially useful to the do-it-yourselfer. There is also a comprehensive section on energy and agriculture. While slightly outdated the information provided is worthwhile. (May be ordered from the Portola Institute, 558 Santa Cruz Ave., Menlo Park, Cal. 94025).

ENERGY: THE SOLAR PROSPECT – Dennis Hayes. Worldwatch Paper 11, Worldwatch Institute, Washington, D.C. 1977. $2.00. Rejecting both coal and nuclear fission as environmentally destructive, this pamphlet advocates a transition to solar energy as the basic source for meeting future energy needs. Subjects include solar heating and cooling methods, wind and falling water power, plant sources of energy, and a discussion of possible energy storage methods. It is clear and concise, emphasizing applications and economic considerations rather than theory. Highly recommended as a good introduction to solar energy.

ENERGY WE CAN LIVE WITH – Daniel Wallace, Ed. Rodale Press, Emmaus, Pa. 1976. A collection of articles on energy and its efficient use, focusing on solar and wind power, organic, low energy farming, and compost energy generation. The articles provide sound explanations of the many aspects of alternative energy and low energy consumptive methods that can be implemented as part of comprehensive, energy-saving techniques for the independent energy consumer. A good introductory source.

THE FUEL SAVERS: A KIT OF SOLAR IDEAS FOR EXISTING HOMES – Dan Scully, Don Prowler, Bruce Anderson with Douglas Mahone. Prepared for the Northwest New Jersey Action Program, Inc., by Total Environmental Action, Church Hill, Harrisville, N.H. 1976. An excellent, easy-to-read book of inexpensive do-it-yourself techniques for saving energy and money in existing homes. Weatherizing and simple solar techniques are discussed, including flexible indoor curtains, insulating shutters, transformation of existing stone-masonry walls into solar collectors, use of greenhouses, window box solar hot water heaters, and glassed-in porches. Instructions are easy to follow and economic concerns considered. Highly recommended for those living in apartments or existing homes seeking to combat high energy costs.

HOMEOWNER'S GUIDE TO SOLAR HEATING AND COOLING – William Foster. TAB Books, Summit, Pa. 1976. $4.95. An excellent discussion of solar energy home use including explanations of solar energy collectors, water and space heating systems, solar heated swimming pools, and solar economics. The author includes descriptions of key solar demonstration projects in the U.S. Many photographs and diagrams make the solar systems easily understandable, and precautions to the solar consumer are included. An excellent, comprehensive work.

THE MOTHER EARTH NEWS HANDBOOK OF HOMEMADE POWER – Mother Earth News Staff. Bantam Books, N.Y. 1974. $1.95. A collection of articles intended for the do-it-yourselfer who wants to build or use devices which contribute to dramatic energy savings and self-sufficiency. Renewable resources discussed are wood, water, wind, solar and methane gas. The book is directed toward the rural energy user who understands construction and can manipulate electrical gadgetry.

NEW LOW-COST SOURCES OF ENERGY FOR THE HOME – Peter Clegg. Garden Way Publishing, Charlotte, Vt. 1976. $5.95. Written for home-owners considering construction of an alternative energy source for home power supply, the text provides basic technical information useful in determining the viability of a system for a given property. Solar, wind, and water power, as well as the basic principles of water/waste systems and wood heating are included. The history, available models and designs, prerequisites of home location and architecture, energy efficiencies and costs of each type of system is discussed. A list of references and suggested readings, and a manufacturers' catalog of available systems with detailed specifications is provided for each system.

THE OWNER-BUILT HOMESTEAD – Barbara & Ken Kern. Charles Scribners & Sons, N.Y. 1977. $6.95. These homesteading authors advocate small-scale, low technology farming as a post modern style of country life. Many facets of homesteading are discussed in a very readable manner, including selection of proper land and well sites, well drilling and soil management and crop development. A good introduction to the homesteading lifestyle.

PEDAL POWER IN WORK, LEISURE, AND TRANSPORTATION – James C. McCullagh, ed. Rodale Press, Emmaus, Pa. 1977. $4.95. A "how-to" book advocating the use of power produced by the stationary bicycle as an energy source for a variety of purposes. Following an overview of historical applications (most notably, the velocipede for sewing machines) the author supports a revival of the technology for use in irrigation pumps, trash can washing machines, water pumps, and saws for fine craftmanship. Clear illustrations and instructions are given for construction of the saw and a foot-powered generator from which household appliances can be run, and future applications are theorized. An interesting and informative book.

PRODUCING YOUR OWN POWER – Carol Hupping Stoner, Ed. Rodale Press, Emmaus, Pa. 1974. $8.95. This collection of essays includes discussions of wind, wood, water, and solar power and methane gas digesters. The history and principles of each are briefly presented, and information for design implementation is provided in personal, narrative form based on the authors' experiences. Particularly excellent are instructions for building solar water heaters. The text assumes considerable technical and mechanical know-how, and would require additional reference material to implement the designs. An appendix provides simple suggestions for conserving energy in existing homes. Good for readers in early planning stages of renewable resource home implementation.

RAINBOOK: RESOURCES FOR APPROPRIATE TECHNOLOGY – Lane DeMoll, ed. Schocken Books, N.Y. 1977. $7.95. A "folksy" catalogue expressing very definite political/lifestyle views, RAINBOOK's authors have previously contributed to the *People's Yellow Pages* and operated Community Design Centers. They provide voluminous lists and discussions of references and organizations involved in appropriate technology, community building, transportation, agriculture, health, communications, energy, recycling and more. Much of the information pre-supposes a major commitment to lifestyle simplification, but selective reading can provide valuable information for less drastic implementation of conservation measures (i.e. – urban gardening).

SOLAR DWELLING DESIGN CONCEPTS – The AIA Research Corp. U.S. Gov't. Printing Office, Washington, D.C. 1976. $2.30. This government-sponsored study offers a concise analysis of solar heating and cooling feasibility. The first half discusses solar collectors, passive solar systems, storage units, and distribution with assessments of various representative systems. The second half discusses choice of setting and design appropriate to various climates including the effects of solar energy on both traditional and modern house design. A useful orientation to the prospective solar house occupant.

SOLAR ENERGY AND SHELTER DESIGN – Bruce Anderson. Total Environmental Action, Harrisville, N.H. 1973. This forerunner to the author's *Solar Home Book* is written primarily for the solar architect or person planning to build a solar home. The initial section contains quotes and magazine clippings detailing the social/environmental value of solar energy. A comprehensive lesson in the calculation of seasonal heating and fuel costs and heat loss through exterior skin and windows is presented, as are special architectural problems inherent in solar design. Included is a bibliography and resource list. Recommended as supplementary reading to the *Solar Home Book*.

SOLAR ENERGY FOR EARTH: AN AIAA ASSESSMENT – Killian et al, editors. American Institute of Aeronautics and Astronautics, N.Y. 1975. This informative, concise account assesses the feasibility of solar energy and concludes that if certain preconditions are met – primarily accelerated research and development coupled with cost savings through economies of scale – solar energy can provide a large part of our overall energy needs by the end of the century. Initial use for hot water heating and space heating and cooling will be followed by electrical power generation provided by solar satellites, ocean thermal energy conversion, and widespread use of wind power. The background, current status, and future potential of each is discussed. A good, general orientation to the practical utilization of solar energy.

SOLAR ENERGY HOME DESIGN IN FOUR CLIMATES – Total Environmental Action, Harrisville, N.H. 1975. This study discusses prototypical houses utilizing solar energy in four climatically different regions of the country to illustrate the commercial feasibility of solar heating. Analyses are provided of solar systems (including storage units and collectors in each of the regions) as well as information for selecting the proper building site and design to maximize efficiency. Each house is dealt with in detail, and comprehensive tables and illustrations have been compiled of the design characteristics and plans. Bibliographies and resource lists are provided. The text may require some architectural background to fully comprehend it.

SOLAR ENERGY: FUNDAMENTALS IN BUILDING DESIGN – Bruce Anderson. McGraw Hill Book Co., N.Y. 1977. $21.50. A discussion of building techniques which enhance the use of solar energy in passive and active designs. The many charts, diagrams and specifications will prove valuable to the architect or proficient do-it-yourselfer as will an extensive bibliography and various diagrams of solar homes. An excellent resource and reference book.

SOLAR ENERGY TECHNOLOGY AND APPLICATIONS – J. Richard Williams. Ann Arbor Science, Ann Arbor, Mich. 1974. $6.95. An advocate of solar energy as the best alternative to fossil fuels and nuclear powered energy, the author provides analyses of solar energy collectors, solar space and water heating devices, solar air conditioning, and the feasibility of total solar energy systems. Examples are given of practical applications of solar energy for industrial and agricultural use. A discussion of other renewable resources is included. Much of the language is technical (glossary included) and better suited to the reader with some prior knowledge of the subject matter.

SOLAR HEATED BUILDINGS – A BRIEF SURVEY. 13th and final edition. William Shurcliff, 19 Appleton St., Cambridge, Mass. 02138. 1977. $9.00, postpaid. The final edition of a constantly updated catalogue of homes, schools, and commercial buildings that employ solar and other renewable resource technologies. Technical and economic information is provided including energy savings, cost of solar systems, and heating bills. Diagrams and resource lists provided. An interesting source of ideas for the prospective solar homeowner/builder.

SOLAR HOUSE DESIGN – Donald Watson. (Prepared for ENERGY BOOK #2, John Prenis, Ed., Running Press, Philadelphia. 1975). A brief discussion of energy conservation in solar house design, including heat retention, sun exposure, wind and snow resistance, internal air flow, and natural cooling relative to climatic conditions of home location. Consideration of economic concerns is provided. A good adjunct to Watson's major work, DESIGNING AND BUILDING A SOLAR HOUSE.

1977 SOLAR ENERGY AND RESEARCH DIRECTORY – Ann Arbor Science Special Task Group. Ann Arbor Science Publishers, Inc. Ann Arbor, Mich. 1977. $9.95. An exhaustive listing of manufacturers, distributors, and research organizations in the solar field and the services they provide. Excellent resource work.

SOLAR ENERGY: THE AWAKENING SCIENCE – Daniel Behrman. Little, Brown & Co., Boston. 1976. $12.50. In what might be subtitled "An Odyssey of Solar Energy," Behrman provides the reader with a fascinating and extensive report on current theory and application of solar technology. His interviews with scientists and technologists engaged in solar experimentation and development provide the basis for the book, which reads as easily as a novel while imparting an enormous amount of information about the current state of the art and projections for future implementation. It is most highly recommended.

SOLAR HOMES AND SUN HEATING – George Daniels. Harper and Row Publishers, Inc., N.Y. 1976. $9.95. An easy-to-read book which examines solar energy collection from a brief historical analysis to future hopes for the technology. Explanations of the basic workings of solar collection systems, passive design techniques, solar storage, the viability of solar heat for existing homes, and the building of flat plate collectors are provided. An excellent introduction to the basics of solar heating.

SUN POWER: AN INTRODUCTION TO THE APPLICATIONS OF SOLAR ENERGY – J. C. McVeigh. Pergamon Press, N.Y. 1977. A brief discussion of the history and principles of solar radiation is followed by an extensive report of solar applications including water and air heating, space heating, thermal power, plus analyses of photovoltaic cells, photosynthesis, and photochemistry in this concise textbook of solar energy. Separate sections are devoted to wind power and to practical solar heating applications, especially in colder climates. Well documented, it is best suited to those interested in the scientific and technical aspects of solar energy.

WIND AND WINDSPINNER: A 'NUTS 'N BOLTS' APPROACH TO WIND-ELECTRIC SYSTEMS – Michael Hackleman. Earthmind/Peace Press, Culver City, Cal. 1974. $7.50. This comprehensive book is invaluable for its presentation of detailed information on the construction of wind-powered electrical generators. Dynamics of electrical generation, workings of lead-acid batteries, storage problems of wind generated electricity and aeroturbine control are discussed. Hints for obtaining inexpensive building materials are provided. The highly technical information is presented in a readable manner; however, certain prior knowledge may be necessary to fully comprehend the text. Especially good for the do-it-yourselfer.

THE WOODBURNER'S ENCYCLOPEDIA: WOOD AS ENERGY – Jay Shelton and Andrew B. Shapiro. J. Shelton, 41 Porter St., Williamstown, Mass. 1976. $8.50. The encyclopedia supports the use of wood as an alternative method of heating for both large scale demand (electrical power plant generation and as a source for industrial chemicals) and small scale use in home stoves and fireplaces. Types of firewood, their relative densities and moisture contents, the combustion process, and the many uses of wood are discussed. Installation instructions and safety precautions for stoves are included, as are resource lists, specifications, and a glossary. A valuable work.

WOOD HEATING HANDBOOK – Charles Self. TAB Books, Blue Ridge Summit, Pa. 1977. $5.95. This well written book gives complete and concise information on the use of wood as an effective energy source, supported by detailed diagrams, illustrations and photographs. Planning and installation of fireplaces, wood-burning stoves, and chimneys are discussed, as well as the burning qualities of different types of wood and best methods of cutting, storing, and burning it. Hints for choosing wood cutting tools and fireplace accessories are included.

PERIODICALS

The following are a few of the magazines which deal wholly or in part with conservation and alternative technologies.

SOLAR AGE – SolarVision, 212 East Main Street, Port Jervis, N.Y. 12771. $20/year, published monthly. Excellent, easy to read magazine for the layman and professional. Articles include discussions of the building, business, historical and consumer issues connected with renewable resources. Highly recommended.

SOLAR ENGINEERING MAGAZINE – Solar Engineering Publishers, Inc., 8435 N. Stemmons Freeway, Suite 880, Dallas, Texas 75247. $10/12 issues, published monthly with some combined issues. The official publication of the Solar Energy Industries Association. Current research and demonstration projects, the economics of solar systems, and reports on industry conferences. Handy for those considering building or investment.

POPULAR SCIENCE – P.O. Box 2871, Boulder, Colorado. $7.94/year. Often includes articles on energy conservation and renewable resource technologies. Informative approach easily understood by laymen.

MOTHER EARTH NEWS – P.O. Box 70, Hendersonville, N.C. 28739. Aimed at the do-it-yourselfer, this magazine is an excellent source of new ideas for building renewable resource equipment. Philosophically committed to self-sufficiency; all ideas are innovative and often unique.

RAIN – 2270 N.W. Irving, Portland, Oregon 97210. $10/year for 10 issues; $5.00 for subscribers with annual incomes below $5,000. For those interested in "back-to-the-earth," do-it-yourself lifestyles. Many good ideas; the access list of resources for people, places, books and magazines is one of the best. Not for the novice.

ADDITIONAL COPIES

Additional copies of this directory/bibliography may be obtained by sending $2.50 per copy (check or money order) to:

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